To Whom it May Concern:

I would like to nominate myself for the open position of Consumer/Environmental Advocacy seat on the NC GreenPower Board of Directors. The docket number is: NCUC Docket # E-100 Sub 90.

My contact information is:

Samuel R Wheeler, PhD
1907 Carnation Drive,
Durham, NC 27703
Cell # (919) 622-3308
Email: sam.wheeler1103@gmail.com

I am submitting a resume with this nomination but to summarize: my qualifications include holding a PhD in Science/Physics Education. I currently in the tenth year of teaching Physics at the North Carolina School of Science and Math. Before joining NCSSM, I taught multiple science courses (physics, environmental science, chemistry, etc.) at various high schools around the state for 17 years. I also teach physics courses at NCSU part time. I previously worked in Washington DC at the US Department of Energy (DOE) in the Office of Science as an Albert Einstein Distinguished Educator Fellow where I learned about DOE's investments and efforts in STEM education and in educating the public about all things related to energy. Finally, I was part of a group from NCSSM who received NC GreenPower training several years ago.

Thank you for your consideration.

Sam R Wheeler 11/3/2022

Sam Wheeler

**Samuel R Wheeler**
**Present Address:**
1907 Carnation Drive
Durham, NC 27703
(919) 622-3308
sam.wheeler1103@gmail.com or wheeler@ncssm.edu

**EDUCATION:** **PhD Science Education (Physics Education), December 2017,**
North Carolina State University, Raleigh, NC
**MA Biology, (2012) climate change & big cat conservation focus,**
Miami University of Ohio, Cincinnati, OH,
**CER Radiological Physics (2010),**
Illinois Institute of Technology, Chicago, IL
**MS Applied Math, minor in Biology (1995),**
Western Carolina University, Cullowhee, NC,
**BS Physics, minor in Math, *Cum Laude (1991),***
North Carolina State University, Raleigh, NC, Cum Laude
**BS Science Education, *Cum Laude (1991),***
North Carolina State University, Raleigh, NC, Cum Laude

**NC Teaching License** – 03 General Science
**National Board Certified Teacher** – Physics AYA
2005 recipient of the ***Presidential Award for Excellence in Math & Science Teaching***
2012-2013 recipient of the ***Albert Einstein Distinguished Educator Fellowship***

**Physics Instructor,** North Carolina School of Science and Math, Durham, NC August 2013-present.

- Teaching Physics with Advanced Topics, and AP Physics C ($11^{th}$-$12^{th}$ grades)
- Course Convener (leader) for PH 355-Physics with Advanced Topics and AP Physics C
- Teaching Research Experience in Physics ($11^{th}$ -$12^{th}$ grades)
- Created, Organized and Led students on Mini-Term course on the history of physics across Europe from the **UK** to the **LHC at CERN in Switzerland**
- Created, Organized, and Led students on a mini-term course on the influence of the **Galapagos and Ecuador** on science and biology
- Created, Organized, and Let students on a mini-term course on Climate Change and Geo-Physics to **Iceland**
- **Science Bowl Coach**-leading students to regional and national competitions
- **Serving/Served** on Accreditation Committee, Admissions Committee, and Faculty Senate

**AP Physics** Question Leader ETS 2008 – Present

- **Responsible** for training Table Leaders on question rubric
- **Evaluate** Leaders and Readers based on performance
- **Allocate** resources necessary to complete the reading in the time limit
- **Grade/score** AP Physics exams, **Table Leader**-lead a group of 8

**Albert Einstein Distinguished Educator Fellow,** US Department of Energy, Washington, DC
August 2012-July 2013

- One of 19 selected from across the country to be awarded the 1-year highly competitive Fellowship
- **Analyzed** and **organized** sensitive **DOE field** lab data
- Created reports and presentations for **Deputy Director of the Office of Science**
- **Served** as educational consultant on K-12 matters to the **Office of Science Workforce Development for Teachers & Scientists**
- **Created** a common network for DOE field labs Educational liaisons to use to report specifics to DOE headquarters

- **Consultant** for NASA's Network of Educator Astronaut Teachers (**NEAT**) (2004-2009)
- **NASA's Spaceward Bound Astrobiology expedition to the Mojave,** March 2007
- TIR for UNC-Chapel Hill's new Physics Teacher program to train new Physics Teachers

**Presentations:**

Wheeler, S. R. & Blanchard, M. R. (2019, November). *High school students and contextual choices in online physics homework problems.* Paper presented at the North Carolina Section of the American Association of Physics Teachers, Durham, NC

Wheeler, S. R. & Blanchard, M. R. (2018). Using Choice to Uncover the Role of Gender Stereotypes in High School Physics Assignments. (2018, March, Accepted) National Association for Research in Science Teaching (NARST) (3/2018)

Wheeler, S. R. & Blanchard, M. R. (2017). How Does a Choice in Context of Physics Problems Influence Student Performance and Attitude. European Science Education Research Association (ESERA) (8/2017)

Wheeler, S. R. & Blanchard, M. R. (2017). Gender and Context Choice Influence on Student Performance and Attitude American Association of Physics Teachers (AAPT) (7/2017)

Wheeler, S. R. & Blanchard, M. R. (2017). Poster Presentation: Using Choice to Uncover the Role of Gender Stereotypes in High School Physics Assignments: Examining Students' Interests, Beliefs, Motivations, and Conceptual Understanding. National Association for Research in Science Teaching (NARST) (4/2017)

Wheeler, S. R. & Blanchard, M. R. (2017). Using Choice to Uncover the Role of Gender Stereotypes in High School Physics Assignments. Association of Science Teacher Education (ASTE) (1/2017)

Wheeler, S.R. Blanchard, M. R. (2014). Video Analysis in the Physics Classroom. Association of Science Teacher Education (ASTE) (1/2014)

Wheeler, S. R. (2013). UK/US Education Policy Impact on Historical GDP. US House of Representatives Offices (3/2013)

Wheeler, S. R. & Hite, Rebecca (2013). A View From the Hill: The Einstein Fellowship. Scaling STEM-conference (3/2013)

**Current Publications:**

Wheeler, Samuel R, and Margaret Blanchard (2019). Contextual Choices in Online Physics Problems: Promising Insights into Closing the Gender Gap. *Frontiers in Psychology-Gender, Sex, and Sexuality Studies*, Vol 10, 594. Published 2/2019.

Wheeler, Sam (2018). Across Europe to CERN: Taking Students on the Ultimate Physics Experience. *The Physics Teacher*, Vol 56, 326 (2018).

Wheeler, S., and Blanchard, M. (2018). How does choice in context of physics problems influence student performance and attitude? In (Eds.), *Electronic Proceedings of the ESERA 2017* Conference. Dublin, Ireland: University of Dublin.

Wheeler, Samuel Ramon (2017). Using Choice to Uncover the Role of Gender Stereotypes in High School Physics Assignments: Examining Students' Interests, Beliefs, Conceptual Understanding and Motivations. (Dissertation Under the direction of Dr. Margaret R. Blanchard). 11/2017